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PASSWORD:

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NEWS 3 MAR 16 CASREACT coverage extended
NEWS 4 MAR 20 MARPAT now updated daily
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NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 7 APR 02 JICST-EPLUS removed from database clusters and STN
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NEWS 10 APR 30 CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 12 MAY 01 New CAS web site launched
NEWS 13 MAY 08 CA/CAPplus Indian patent publication number format defined
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 17 MAY 21 CA/CAPplus enhanced with additional kind codes for German patents
NEWS 18 MAY 22 CA/CAPplus enhanced with IPC reclassification in Japanese patents
NEWS 19 JUN 18 CA/CAPplus to be enhanced with pre-1967 CAS Registry Numbers
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS STN Operating Hours Plus Help Desk Availability
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Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:18:31 ON 21 JUN 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 09:18:46 ON 21 JUN 2007
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STRUCTURE FILE UPDATES: 20 JUN 2007 HIGHEST RN 938114-25-1
DICTIONARY FILE UPDATES: 20 JUN 2007 HIGHEST RN 938114-25-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

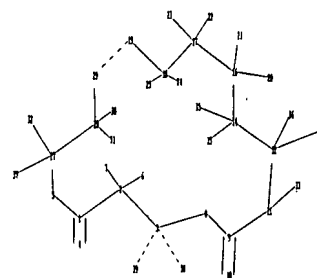
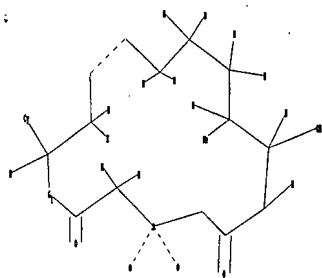
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REGISTRY includes numerically searchable data for experimental and
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10580992b.str



```

chain nodes :
4 6 7 10 13 15 20 21 22 23 24 25 30 31 32 33 35 36 37 38 39
ring nodes :
1 2 3 5 8 9 11 12 14 16 17 18 19 27 28 29
chain bonds :
1-4 2-6 2-7 3-38 3-39 9-10 11-33 12-13 12-36 14-15 14-35 16-20 16-21
17-22 17-23 18-24 18-25 27-32 27-37 28-30 28-31
ring bonds :
1-2 1-5 2-3 3-8 5-27 8-9 9-11 11-12 12-14 14-16 16-17 17-18 18-19
19-29 27-28 28-29
exact/norm bonds :
1-2 1-4 1-5 2-3 2-6 2-7 3-8 3-38 3-39 5-27 8-9 9-10 9-11 11-12 11-33
12-13 12-14 12-36 14-15 14-16 14-35 16-17 16-20 16-21 17-18 17-22 17-23
18-19 18-24 18-25 19-29 27-28 27-32 27-37 28-29 28-30 28-31
isolated ring systems :
containing 1 :

```

G1:O,N

Match level :

```

1:Atom 2:Atom 3:Atom 4:CLASS 5:Atom 6:CLASS 7:CLASS 8:Atom 9:Atom 10:CLASS
11:Atom 12:Atom 13:CLASS 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 27:Atom 28:Atom
29:Atom 30:CLASS 31:CLASS 32:Atom 33:CLASS 35:CLASS 36:CLASS 37:CLASS
38:CLASS 39:CLASS

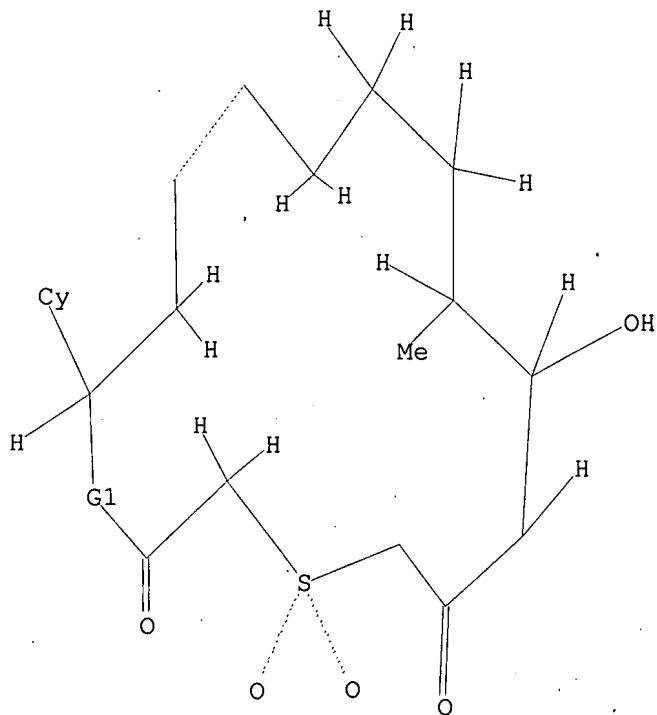
```

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:19:06 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 09:19:12 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 30 TO ITERATE

100.0% PROCESSED 30 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

STN INTERNATIONAL LOGOFF AT 09:19:16 ON 21 JUN 2007

Connecting via Winsock to STN

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=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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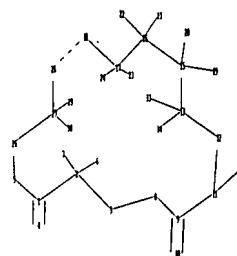
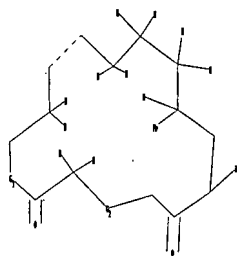
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=>

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1 2 3 5 8 9 11 12 13 15 16 17 18 26 27 28

chain bonds :

1-4 2-6 2-7 9-10 11-31 13-14 13-33 15-19 15-20 16-21 16-22 17-23 17-24
27-29 27-30 36-37

ring bonds :

1-2 1-5 2-3 3-8 5-26 8-9 9-11 11-12 12-13 13-15 15-16 16-17 17-18
18-28 26-27 27-28

exact/norm bonds :

1-2 1-4 1-5 2-3 2-6 2-7 3-8 5-26 8-9 9-10 9-11 11-12 11-31 12-13
13-14 13-15 13-33 15-16 15-19 15-20 16-17 16-21 16-22 17-18 17-23 17-24
18-28 26-27 27-28 27-29 27-30 36-37

G1:O,N

G2:[*1-*2],[*3-*4],[*5-*6]

Match level :

1:Atom 2:Atom 3:Atom 4:CLASS 5:Atom 6:CLASS 7:CLASS 8:Atom 9:Atom 10:CLASS
11:Atom 12:Atom 13:Atom 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 26:Atom 27:Atom 28:Atom
29:CLASS 30:CLASS 31:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.45

0.66

FILE 'CAPLUS' ENTERED AT 09:50:34 ON 21 JUN 2007

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FILE COVERS 1907 - 21 Jun 2007 VOL 146 ISS 26

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=> s l1 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 09:50:44 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 21238 TO ITERATE

100.0% PROCESSED 21238 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.02

L2 3 SEA SSS FUL L1

L3 1 L2

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.47	173.70

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 09:51:06 ON 21 JUN 2007
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DICTIONARY FILE UPDATES: 20 JUN 2007 HIGHEST RN 938114-25-1

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s l1 full

FULL SEARCH INITIATED 09:51:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED, - 21238 TO ITERATE

100.0% PROCESSED 21238 ITERATIONS
SEARCH TIME: 00.00.01

3 ANSWERS

L4 3 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
172.10	345.80

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 09:51:15 ON 21 JUN 2007
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=> s l4 full

L5 1 L4

=> d ibib abs hitstr tot

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:493605 CAPLUS

DOCUMENT NUMBER: 143:26422

TITLE: Preparation of macrocyclic thiaepothilones for treating cancer

INVENTOR(S): Wessjohann, Ludger A.; Eichelberger, Uwe; Thi Phuong, Thao Tran

PATENT ASSIGNEE(S): Leibniz-Institut fuer Pflanzenbiochemie IPB, Germany

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

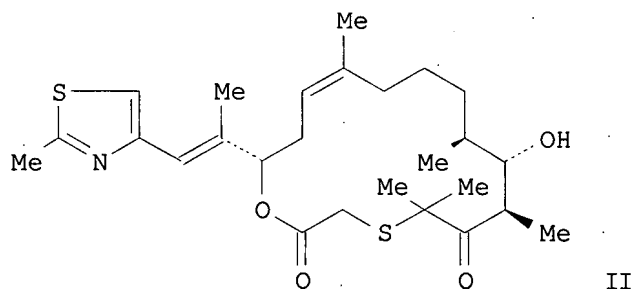
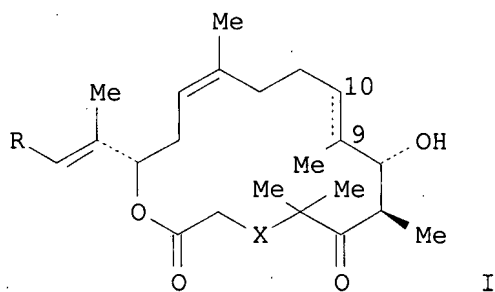
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005051947	A1	20050609	WO 2004-EP13451	20041126
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10355223	A1	20050630	DE 2003-10355223	20031126
EP 1687301	A1	20060809	EP 2004-798099	20041126
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
US 2007105905	A1	20070510	US 2005-580992	20050526
PRIORITY APPLN. INFO.:			DE 2003-10355223	A 20031126
			WO 2004-EP13451	W 20041126

OTHER SOURCE(S): MARPAT 143:26422

GI



AB Thiaepothilone macrolides, such as I [R = heteroaryl, such as 2-methyl-4-thiazolyl, 2-methyl-4-oxazolyl or 6-methyl-2-pyridinylmethyl; X = S, SO, SO₂; 9,10-bond = single or double], were prepared for therapeutic use and antitumor agents. Thus, thiaepothilone macrolide II was prepared via a multistep macrocyclization sequence starting from Me₂CHCOCH₂Me, HSCH₂CO₂Et, (BrCH₂)₂CO, neryl bromide and tributyl[(2-methyl-4-thiazolyl)methyl]phosphonium chloride. The prepared thiaepothilones were assayed for their effect on cell proliferation of MCF7, L929 and A549 cancer cell lines.

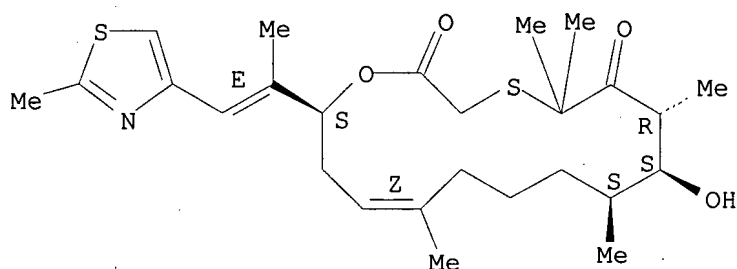
IT 853023-23-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of macrocyclic thiaepothilones for treating cancer)

RN 853023-23-1 CAPLUS

CN 1-Oxa-4-thiacyclohexadec-13-ene-2,6-dione, 8-hydroxy-5,5,7,9,13-pentamethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



IT 853023-24-2P 853023-26-4P

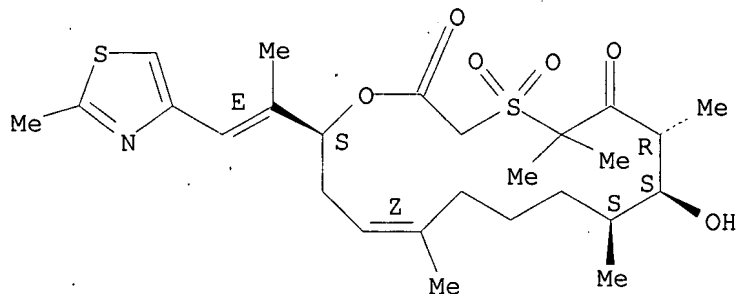
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of macrocyclic thiaepothilones for treating cancer)

RN 853023-24-2 CAPLUS

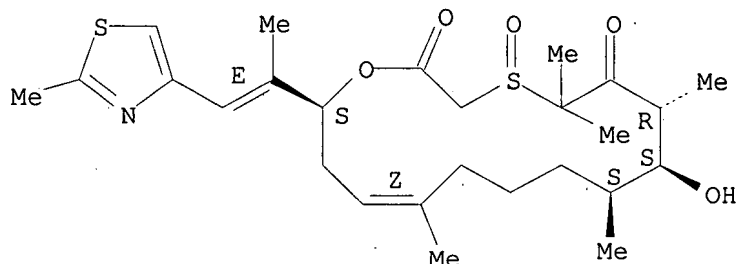
CN 1-Oxa-4-thiacyclohexadec-13-ene-2,6-dione, 8-hydroxy-5,5,7,9,13-pentamethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, 4,4-dioxide, (7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 853023-26-4 CAPLUS
CN 1-Oxa-4-thiacyclohexadec-13-ene-2,6-dione, 8-hydroxy-5,5,7,9,13-pentamethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, 4-oxide, (7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 09:49:48 ON 21 JUN 2007)

L1 FILE 'REGISTRY' ENTERED AT 09:49:59 ON 21 JUN 2007
STRUCTURE UPLOADED

FILE 'CAPLUS' ENTERED AT 09:50:34 ON 21 JUN 2007
S L1

L2 FILE 'REGISTRY' ENTERED AT 09:50:44 ON 21 JUN 2007
3 S L1 FULL

L3 FILE 'CAPLUS' ENTERED AT 09:50:46 ON 21 JUN 2007
1 S L2 FULL

L4 FILE 'REGISTRY' ENTERED AT 09:51:06 ON 21 JUN 2007
3 S L1 FULL

L5 FILE 'CAPLUS' ENTERED AT 09:51:15 ON 21 JUN 2007
1 S L4 FULL

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.62

353.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.78

-0.78

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SINCE FILE

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STRUCTURE FILE UPDATES: 20 JUN 2007 HIGHEST RN 938114-25-1
DICTIONARY FILE UPDATES: 20 JUN 2007 HIGHEST RN 938114-25-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

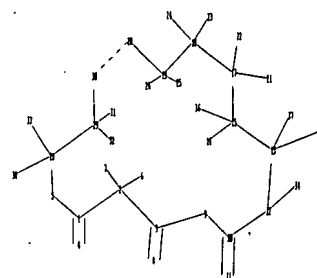
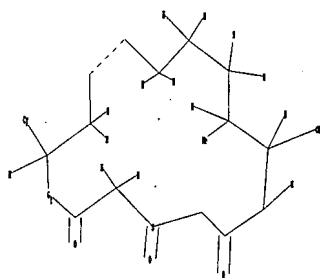
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10580992.str



```

chain nodes :
4 6 7 8 11 14 16 21 22 23 24 25 26 31 32 33 34 36 37 38
ring nodes :
1 2 3 5 9 10 12 13 15 17 18 19 20 28 29 30
chain bonds :
1-4 2-6 2-7 3-8 10-11 12-34 13-14 13-37 15-16 15-36 17-21 17-22 18-23
18-24 19-25 19-26 28-33 28-38 29-31 29-32
ring bonds :
1-2 1-5 2-3 3-9 5-28 9-10 10-12 12-13 13-15 15-17 17-18 18-19 19-20
20-30 28-29 29-30
exact/norm bonds :
1-2 1-4 1-5 2-3 2-6 2-7 3-8 3-9 5-28 9-10 10-11 10-12 12-13 12-34
13-14 13-15 13-37 15-16 15-17 15-36 17-18 17-21 17-22 18-19 18-23 18-24
19-20 19-25 19-26 20-30 28-29 28-33 28-38 29-30 29-31 29-32
isolated ring systems :
containing 1 :

```

G1:O,N

Match level :

```

1:Atom 2:Atom 3:Atom 4:CLASS 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:Atom 10:Atom
11:CLASS 12:Atom 13:Atom 14:CLASS 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 28:Atom
29:Atom 30:Atom 31:CLASS 32:CLASS 33:Atom 34:CLASS 36:CLASS 37:CLASS
38:CLASS

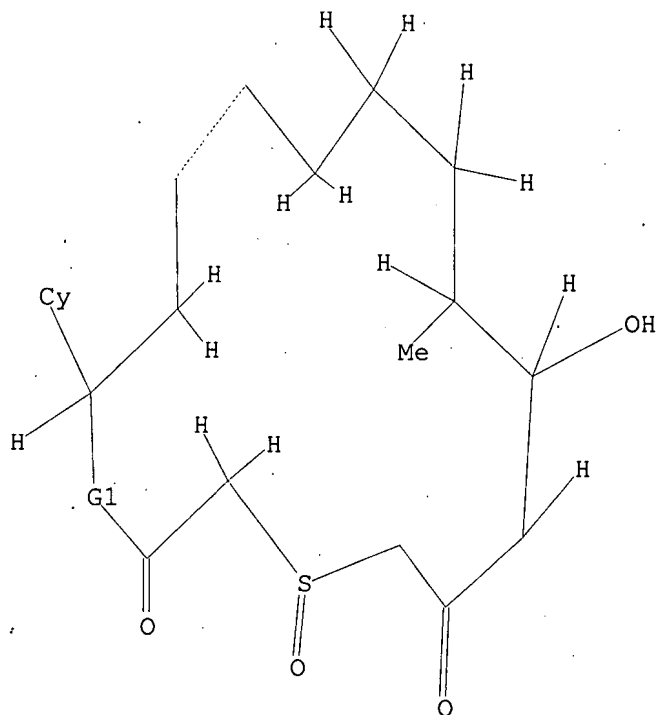
```

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:09:50 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 09:09:57 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 75 TO ITERATE

100.0% PROCESSED 75 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=> d his

(FILE 'HOME' ENTERED AT 09:08:30 ON 21 JUN 2007)

FILE 'REGISTRY' ENTERED AT 09:08:52 ON 21 JUN 2007

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 0 S L1 FULL

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

172.76

STN INTERNATIONAL LOGOFF AT 09:10:21 ON 21 JUN 2007